

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 November 2004 (25.11.2004)

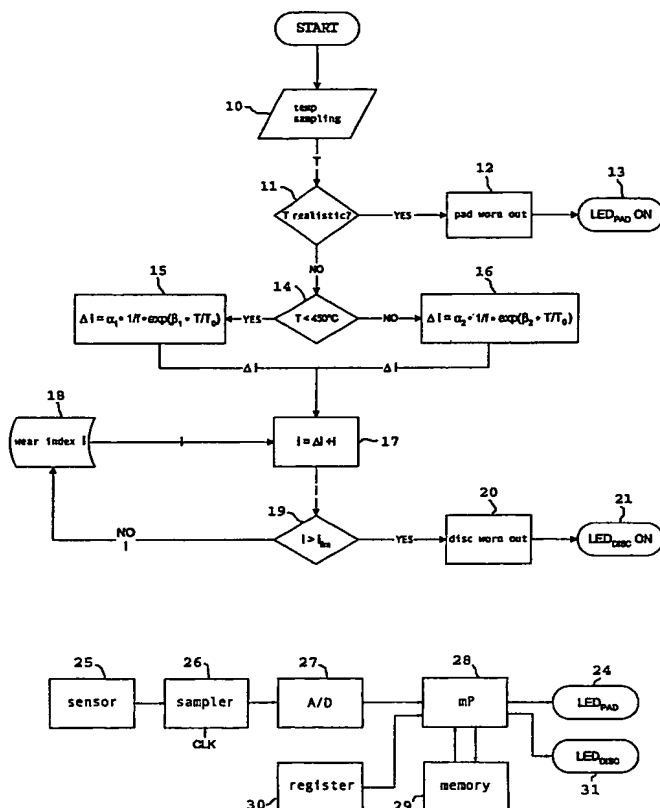
PCT

(10) International Publication Number
WO 2004/102031 A1

- (51) International Patent Classification⁷: **F16D 66/02**
- (21) International Application Number:
PCT/IT2003/000290
- (22) International Filing Date: 14 May 2003 (14.05.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (71) Applicant (for all designated States except US): **FRENI BREMBO S.p.A.** [IT/IT]; Via Brembo, 25, I-24035 Curno (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **PACCHIANA, Giovanni, Paolo** [IT/IT]; Via Don Seghezzi, 16, I-24040 Locate (IT). **MICARI, Fabio** [IT/IT]; Via Nuova Panoramica, 1416, I-98168 Messina (IT).
- (74) Agents: **MAGGIONI, Claudio** et al.; c/o Jacobacci & Partners S.p.A., Via delle Quattro Fontane, 15, I-00184 Roma (IT).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR MEASURING THE WEAR OF A CERAMIC DISK OF A DISK-BRAKE DISK



(57) Abstract: The specification describes a method and a system for measuring the wear of a disk of composite ceramic material of a disk brake. The method comprises the following operations: measuring the temperature (T) of the disk at a predetermined frequency (f), calculating a wear increment (delta i) as a function of the measured temperature (T) at every temperature measurement, summing the calculated wear increments (delta i) comparing the sum of the wear increments with a predetermined limiting wear index (i_{lim}) and signalling the eventual overstepping of the limiting wear index (i_{lim}).



Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.